

From: Dave Folkes <DFolkes@Geosyntec.com>
Sent: Tuesday, November 28, 2017 3:46 PM
To: Stovall - CDPHE, Curtis
Cc: Ackerman, Joyce; Walker - CDPHE, David; Richard Dean; Dave Stewart; Thomas J. Krasovec; Jonathan H. Steeler
Subject: RE: Additional EM survey
Attachments: Stratus RR Additional EM Survey letter 11-28-2017.pdf

Curt,

Please replace the previous EM letter with the attached – we corrected a labelling error on Figure 1. I apologize for the inconvenience!

Dave

From: Dave Folkes
Sent: Tuesday, November 28, 2017 3:21 PM
To: 'Stovall - CDPHE, Curtis' <curtis.stovall@state.co.us>
Cc: 'Ackerman, Joyce' <ackerman.joyce@epa.gov>; Walker - CDPHE, David <david.walker@state.co.us>; Richard Dean <rdean@stratuscompanies.com>; 'Dave Stewart' <Dave.Stewart@stewartenv.com>; Thomas J. Krasovec <TJKrasovec@Geosyntec.com>; Jonathan H. Steeler <JSteeler@sennlaw.com>
Subject: Additional EM survey

Curt,

Further to our earlier discussions and my voice mail this morning, attached is a letter and figures describing the additional EM survey that Stratus plans to perform tomorrow at the Neuhauser Landfill site. The areas depicted for surveying can be adjusted in the field as necessary to ensure we cover all areas of concern to CDPHE. We look forward to seeing you tomorrow:

Best regards, Dave

David J. Folkes, P.E. (CO)
Senior Principal
Geosyntec Consultants

5670 Greenwood Plaza Blvd.
Suite 540
Greenwood Village, CO 80111
Phone: 303.790.1340
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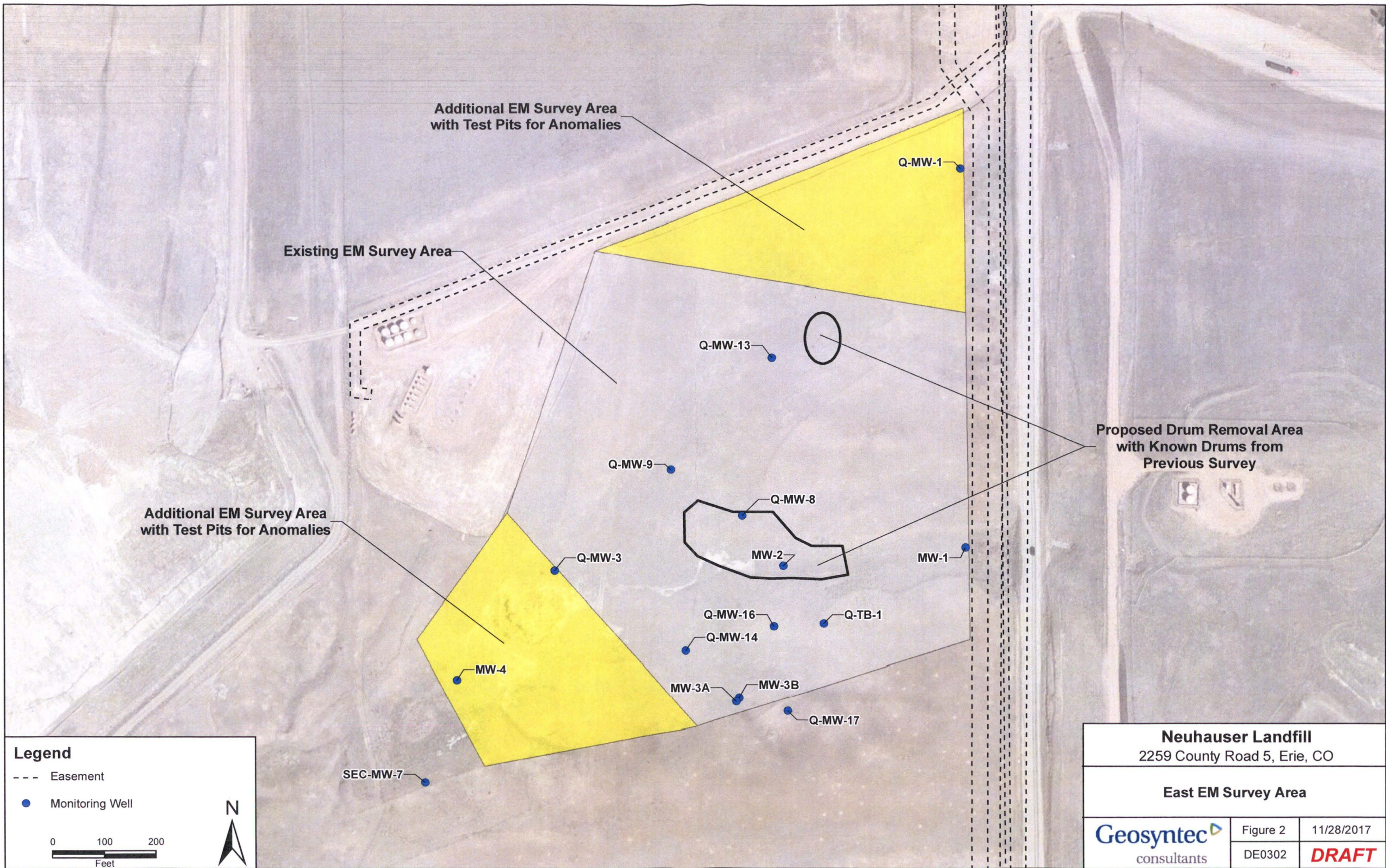
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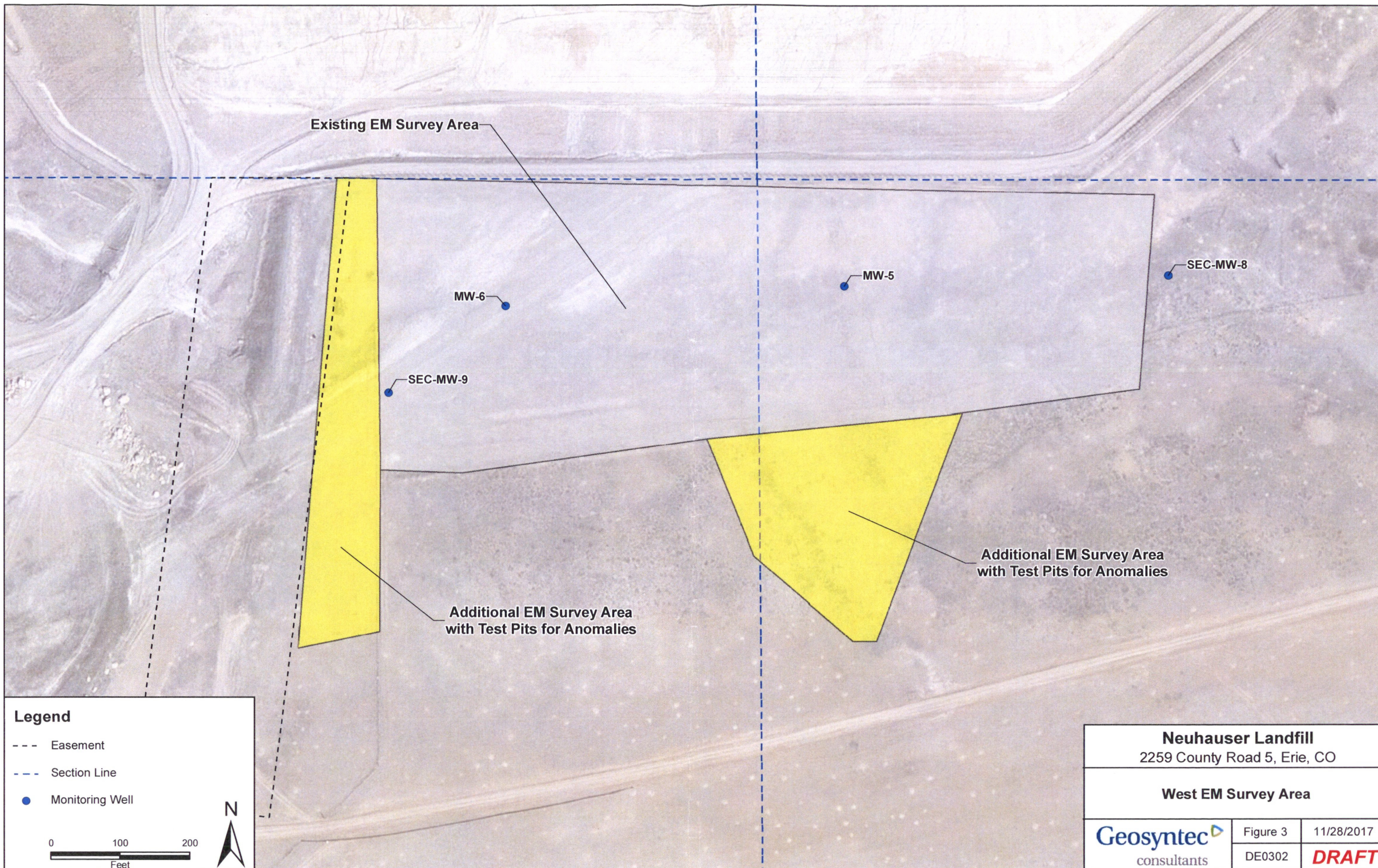
— Property Boundary

0 500 1,000
Feet

N

Stratus Redtail Ranch 2259 County Road 5, Erie, CO		
Site Map		
Geosyntec consultants	Figure 1	11/28/2017
	DE0302	DRAFT





Ackerman, Joyce

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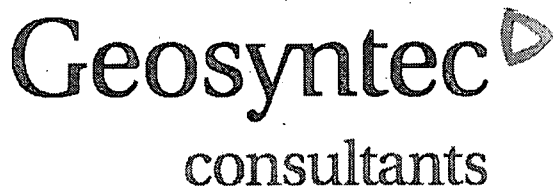
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DE0302

November 28, 2017

Mr. Curtis Stovall, PE
Solid Waste Unit, Hazardous Materials and Waste Management Division
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530

**Subject: Proposed Additional EM Survey Areas
Stratus Redtail Ranch/Neuhauser Landfill
Weld County, Colorado.**

Dear Mr. Stovall:

On behalf of Stratus Redtail Ranch, LLC (Stratus), this letter provides figures showing the proposed areas for additional Electro-Magnetic (EM) surveying at the Neuhauser Landfill site ("site"), currently scheduled for November 29 and 30, 2017. The additional survey areas, combined with the previous July 2017 survey areas, are intended to cover the entire extent of solid waste disposal on the Stratus property (i.e., the Neuhauser Landfill), as indicated in the Hazardous Materials and Waste Management Division (Division) June 13, 2017 letter approving with modifications the *Phase Two Work Plan to Determine the Nature and Extend of Ground Water Contamination and Solid Waste Extent at the Stratus Redtail Ranch* by Stewart Environmental Consulting Group, LLC, dated May 31, 2017.

The additional areas will be staked in the field prior to conducting the survey, and later surveyed for precise mapping of the surveyed area. The EM work will be conducted by National Ground Penetrating Radar Services (NGPRS) using a Geonics EM61 metal detector, which will be wheeled across the entire additional survey area along transect lines spaced fifteen feet apart. This distance is expected to provide complete coverage of the area between each transect line. EM readings with GPS coordinates will be processed using TrackMaker61MK2 software and converted for contouring using Surfer 14. Contour maps of the EM61 Channel 1 (metal) will be generated and evaluated to identify high in-phase responses (anomalies) that might represent potential metal targets (drums, metal debris, magnetic tape and other metal-containing municipal waste). Channel 1 was selected for contouring because it provides the deepest exploration depth in the standard operation mode.

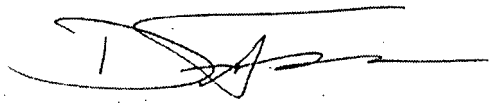
Additional EM Survey - Neuhauser Landfill
November 28, 2017
Page 2 of 2

Stratus will later test pit anomalous areas identified by the previous and additional EM surveys, and other areas within the Neuhauser Landfill as requested by CDPHE and/or the U.S. EPA. This test pitting will be conducted pursuant to the Administrative Settlement Agreement and Order on Consent (AOC) entered into voluntarily by the EPA and Stratus Redtail Ranch LLC (Stratus) and an EPA-approved Drum Removal Work Plan. Any drums found during this investigation, or by other means during the drum removal program, will be removed as part of the drum removal action. If drums are found after the drum removal action is complete, Stratus will coordinate with CDPHE and EPA to ensure that they are properly removed and disposed.

We understand that you will be present at the site during the additional survey and look forward to your input and any recommendations you may provide during this work, including any other areas warranting test pitting, so that all drums that can reasonably be identified are managed during the drum removal action.

Please do not hesitate to contact me if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read 'David J. Folkes', with a horizontal line extending to the right.

David J. Folkes, P.E.
Senior Principal

Attachment:
Figures 1-3

cc w/attachment:
Joyce Ackerman, U.S. EPA
David Walker, CDPHE
Richard Dean, Stratus
Jonathan Steeler, Esquire